

# Gypsol HTC ZL

Gypsol HTC ZL is specifically formulated for use with underfloor heating and cooling systems. It is suitable for both warm water and electric underfloor heating.

## About Gypsol HTC ZL

Gypsol Binder is an integral component of Gypsol HTC ZL, a screed specially formulated to allow thinner depths than other Gypsol screeds, allowing just 15mm cover to heating conduits. Gypsol HTC ZL is designed to offer high thermal performance in conjunction with underfloor heating and cooling systems. Gypsol HTC ZL is suitable for all types of floor covering including traditional tiles, carpets, vinyl and wood floors. Gypsol HTC ZL has all the benefits of our latest ZL technology.

### Physical data

|                                  |   |
|----------------------------------|---|
| Appearance                       | Off white fluid mortar                                  |
| Density (kg/m <sup>3</sup> )     | Wet - 2200<br>Dry - 2000                                |
| Required strength                | C25 - F4<br>Minimum binder content 800kg/m <sup>3</sup> |
| Required flow ZL<br>(EN 13454-2) | 250mm +/- 10mm  |
| Reaction to fire                 | Class A1 <sub>fl</sub> Non-Combustible                  |

### Performance data

|                                    |  |
|------------------------------------|--|
| Working time                       | Place and finish within 3 hours<br>of batching |
| Foot traffic                       | 24-48 hours                                    |
| Loading                            | 7 days   |
| Drying (50mm depth) <sup>[1]</sup> | At 20°C and 60% RH - 28<br>days                |
| Force drying                       | Can be force dried after 7 days                |

Please refer to our post installation guidance document for further details

<sup>[1]</sup> Independently tested and verified. Drying times vary depending on screed depth, ambient conditions and suitability of the building envelope.

LKAB Minerals Ltd are not screed manufacturers. The chemical and physical data are expected average figures and are given in good faith but without guarantee. The only warranty LKAB Minerals makes is the express written warranty extended on the sale of its products. For manufacturer specific data please contact your Gypsol screed supplier. Gypsol screeds should be installed in accordance with BS 8204-7:2003 by suitably trained and experienced installers. Gypsol HTC ZL Data Sheet, 08-02-26-02 EN.

### Minimum depth requirements

|                   |                                  |
|-------------------|----------------------------------|
| Bonded            | 25mm <sup>[2]</sup>              |
| Unbonded          | 30mm                             |
| Floating          | 35mm domestic<br>40mm commercial |
| Acoustic          | 80kg/m <sup>2</sup> @ 40mm       |
| Cover to conduits | 15mm                             |

<sup>[2]</sup> Prepare the substrate in accordance with BS8204:7:2003 using a gritted two coat epoxy resin DPM or similar.

### Bay sizes and joint requirements

#### Heated

|                      |                   |
|----------------------|-------------------|
| Maximum length       | 20m               |
| Maximum aspect ratio | 6:1               |
| Maximum bay size     | 300m <sup>2</sup> |

Movement joints should be placed at door thresholds, between independently controlled heating zones and where heated and unheated screeds meet.

### Environmental data

|                                  |                          |
|----------------------------------|--------------------------|
| Typical embodied CO <sub>2</sub> | 6.0-7.5kg/m <sup>2</sup> |
| Thermal conductivity             | Up to 2.5w/mK            |